

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
June 2024

Security:				3-5/8% 30-Year TIPS	3-7/8% 30-Year TIPS	3-3/8% 30-1/2-Year TIPS	2-3/8% 20-1/2-Year TIPS
Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				TIPS of April 2028 912810FD5 April 15, 1998 April 15, 1998 July 15, 1998	TIPS of April 2029 912810FH6 April 15, 1999 April 15, 1999 October 15, 1999 October 16, 2000	TIPS of April 2032 912810FQ6 October 15, 2001 October 15, 2001	TIPS of January 2025 912810FR4 July 15, 2004 July 30, 2004 January 31, 2005 July 29, 2005
Maturity Date: Ref CPI on Dated Date:				April 15, 2028 161.74000	April 15, 2029 164.39333	April 15, 2032 177.50000	January 15, 2025 188.49677
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio
June	1	2024	312.33200	1.93107	1.89991	1.75962	1.65696
June	2	2024	312.37253	1.93133	1.90015	1.75985	1.65718
June	3	2024	312.41307	1.93158	1.90040	1.76007	1.65739
June	4	2024	312.45360	1.93183	1.90065	1.76030	1.65761
June	5	2024	312.49413	1.93208	1.90089	1.76053	1.65782
June	6	2024	312.53467	1.93233	1.90114	1.76076	1.65804
June	7	2024	312.57520	1.93258	1.90139	1.76099	1.65825
June	8	2024	312.61573	1.93283	1.90163	1.76122	1.65847
June	9	2024	312.65627	1.93308	1.90188	1.76144	1.65868
June	10	2024	312.69680	1.93333	1.90213	1.76167	1.65890
June	11	2024	312.73733	1.93358	1.90237	1.76190	1.65911
June	12	2024	312.77787	1.93383	1.90262	1.76213	1.65933
June	13	2024	312.81840	1.93408	1.90287	1.76236	1.65954
June	14	2024	312.85893	1.93433	1.90311	1.76259	1.65976
June	15	2024	312.89947	1.93458	1.90336	1.76281	1.65997
June	16	2024	312.94000	1.93483	1.90361	1.76304	1.66019
June	17	2024	312.98053	1.93508	1.90385	1.76327	1.66040
June	18	2024	313.02107	1.93533	1.90410	1.76350	1.66062
June	19	2024	313.06160	1.93559	1.90434	1.76373	1.66083
June	20	2024	313.10213	1.93584	1.90459	1.76396	1.66105
June	21	2024	313.14267	1.93609	1.90484	1.76418	1.66126
June	22	2024	313.18320	1.93634	1.90508	1.76441	1.66148
June	23	2024	313.22373	1.93659	1.90533	1.76464	1.66169
June	24	2024	313.26427	1.93684	1.90558	1.76487	1.66191
June	25	2024	313.30480	1.93709	1.90582	1.76510	1.66212
June	26	2024	313.34533	1.93734	1.90607	1.76533	1.66234
June	27	2024	313.38587	1.93759	1.90632	1.76555	1.66255
June	28	2024	313.42640	1.93784	1.90656	1.76578	1.66277
June	29	2024	313.46693	1.93809	1.90681	1.76601	1.66298
June	30	2024	313.50747	1.93834	1.90706	1.76624	1.66320
CPI-U (NSA) for:				February 2024 310.326	March 2024 312.332	April 2024 313.548	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
June 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s): Maturity Date: Ref CPI on Dated Date:				2% 20-Year TIPS TIPS of January 2026 912810FS2 January 15, 2006 January 31, 2006 July 31, 2006 January 15, 2026 198.47742	2-3/8% 20-Year TIPS TIPS of January 2027 912810PS1 January 15, 2007 January 31, 2007 July 31, 2007 January 15, 2027 201.66452	1-3/4% 20-Year TIPS TIPS of January 2028 912810PV4 January 15, 2008 January 31, 2008 July 31, 2008 January 15, 2028 209.49645	2-1/2% 20-Year TIPS TIPS of January 2029 912810PZ5 January 15, 2009 January 30, 2009 July 31, 2009 January 15, 2029 214.69971	
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio
June	1	2024	312.33200	1.57364	1.54877	1.49087	1.45474	
June	2	2024	312.37253	1.57384	1.54897	1.49106	1.45493	
June	3	2024	312.41307	1.57405	1.54917	1.49126	1.45512	
June	4	2024	312.45360	1.57425	1.54937	1.49145	1.45531	
June	5	2024	312.49413	1.57446	1.54957	1.49164	1.45549	
June	6	2024	312.53467	1.57466	1.54978	1.49184	1.45568	
June	7	2024	312.57520	1.57487	1.54998	1.49203	1.45587	
June	8	2024	312.61573	1.57507	1.55018	1.49222	1.45606	
June	9	2024	312.65627	1.57527	1.55038	1.49242	1.45625	
June	10	2024	312.69680	1.57548	1.55058	1.49261	1.45644	
June	11	2024	312.73733	1.57568	1.55078	1.49280	1.45663	
June	12	2024	312.77787	1.57589	1.55098	1.49300	1.45682	
June	13	2024	312.81840	1.57609	1.55118	1.49319	1.45700	
June	14	2024	312.85893	1.57629	1.55138	1.49339	1.45719	
June	15	2024	312.89947	1.57650	1.55158	1.49358	1.45738	
June	16	2024	312.94000	1.57670	1.55179	1.49377	1.45757	
June	17	2024	312.98053	1.57691	1.55199	1.49397	1.45776	
June	18	2024	313.02107	1.57711	1.55219	1.49416	1.45795	
June	19	2024	313.06160	1.57732	1.55239	1.49435	1.45814	
June	20	2024	313.10213	1.57752	1.55259	1.49455	1.45833	
June	21	2024	313.14267	1.57772	1.55279	1.49474	1.45851	
June	22	2024	313.18320	1.57793	1.55299	1.49493	1.45870	
June	23	2024	313.22373	1.57813	1.55319	1.49513	1.45889	
June	24	2024	313.26427	1.57834	1.55339	1.49532	1.45908	
June	25	2024	313.30480	1.57854	1.55359	1.49551	1.45927	
June	26	2024	313.34533	1.57875	1.55380	1.49571	1.45946	
June	27	2024	313.38587	1.57895	1.55400	1.49590	1.45965	
June	28	2024	313.42640	1.57915	1.55420	1.49609	1.45984	
June	29	2024	313.46693	1.57936	1.55440	1.49629	1.46002	
June	30	2024	313.50747	1.57956	1.55460	1.49648	1.46021	
CPI-U (NSA) for:				February 2024 310.326	March 2024 312.332	April 2024 313.548		

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
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Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			2-1/8% 30-Year TIPS TIPS of February 2040 912810QF8 February 15, 2010 February 26, 2010 August 31, 2010	2-1/8% 30-Year TIPS TIPS of February 2041 912810QP6 February 15, 2011 February 28, 2011 June 30, 2011 October 31, 2011	0-3/4% 30-Year TIPS TIPS of February 2042 912810QV3 February 15, 2012 February 29, 2012 June 29, 2012 October 31, 2012	0-5/8% 30-Year TIPS TIPS of February 2043 912810RA8 February 15, 2013 February 28, 2013 June 28, 2013 October 31, 2013		
Maturity Date: Ref CPI on Dated Date:			February 15, 2040 216.13950	February 15, 2041 218.99100	February 15, 2042 225.96062	February 15, 2043 229.91100		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
June	1	2024	312.33200	1.44505	1.42623	1.38224	1.35849	
June	2	2024	312.37253	1.44524	1.42642	1.38242	1.35867	
June	3	2024	312.41307	1.44542	1.42660	1.38260	1.35884	
June	4	2024	312.45360	1.44561	1.42679	1.38278	1.35902	
June	5	2024	312.49413	1.44580	1.42697	1.38296	1.35920	
June	6	2024	312.53467	1.44599	1.42716	1.38314	1.35937	
June	7	2024	312.57520	1.44617	1.42734	1.38332	1.35955	
June	8	2024	312.61573	1.44636	1.42753	1.38350	1.35972	
June	9	2024	312.65627	1.44655	1.42771	1.38368	1.35990	
June	10	2024	312.69680	1.44674	1.42790	1.38386	1.36008	
June	11	2024	312.73733	1.44692	1.42808	1.38403	1.36025	
June	12	2024	312.77787	1.44711	1.42827	1.38421	1.36043	
June	13	2024	312.81840	1.44730	1.42845	1.38439	1.36061	
June	14	2024	312.85893	1.44749	1.42864	1.38457	1.36078	
June	15	2024	312.89947	1.44767	1.42882	1.38475	1.36096	
June	16	2024	312.94000	1.44786	1.42901	1.38493	1.36114	
June	17	2024	312.98053	1.44805	1.42919	1.38511	1.36131	
June	18	2024	313.02107	1.44824	1.42938	1.38529	1.36149	
June	19	2024	313.06160	1.44842	1.42956	1.38547	1.36166	
June	20	2024	313.10213	1.44861	1.42975	1.38565	1.36184	
June	21	2024	313.14267	1.44880	1.42993	1.38583	1.36202	
June	22	2024	313.18320	1.44899	1.43012	1.38601	1.36219	
June	23	2024	313.22373	1.44917	1.43030	1.38619	1.36237	
June	24	2024	313.26427	1.44936	1.43049	1.38637	1.36255	
June	25	2024	313.30480	1.44955	1.43067	1.38655	1.36272	
June	26	2024	313.34533	1.44974	1.43086	1.38673	1.36290	
June	27	2024	313.38587	1.44992	1.43104	1.38690	1.36307	
June	28	2024	313.42640	1.45011	1.43123	1.38708	1.36325	
June	29	2024	313.46693	1.45030	1.43141	1.38726	1.36343	
June	30	2024	313.50747	1.45049	1.43160	1.38744	1.36360	
CPI-U (NSA) for:			February 2024	310.326	March 2024	312.332	April 2024	313.548

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June 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				1-3/8% 30-Year TIPS TIPS of February 2044 912810RF7 February 15, 2014 February 28, 2014 June 30, 2014 October 31, 2014	0-1/8% 10-Year TIPS Series D-2024 912828WU0 July 15, 2014 July 31, 2014 September 30, 2014 November 28, 2014	0-1/4% 10-Year TIPS Series A-2025 912828H45 January 15, 2015 January 30, 2015 March 31, 2015 May 29, 2015	0-3/4% 30-Year TIPS TIPS of February 2045 912810RL4 February 15, 2015 February 27, 2015 June 30, 2015 October 30, 2015		
Maturity Date: Ref CPI on Dated Date:				February 15, 2044 233.05900	July 15, 2024 237.44594	January 15, 2025 236.85403	February 15, 2045 235.48150		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
June	1	2024	312.33200	1.34014	1.31538	1.31867	1.32635		
June	2	2024	312.37253	1.34032	1.31555	1.31884	1.32653		
June	3	2024	312.41307	1.34049	1.31572	1.31901	1.32670		
June	4	2024	312.45360	1.34066	1.31589	1.31918	1.32687		
June	5	2024	312.49413	1.34084	1.31606	1.31935	1.32704		
June	6	2024	312.53467	1.34101	1.31624	1.31952	1.32722		
June	7	2024	312.57520	1.34118	1.31641	1.31970	1.32739		
June	8	2024	312.61573	1.34136	1.31658	1.31987	1.32756		
June	9	2024	312.65627	1.34153	1.31675	1.32004	1.32773		
June	10	2024	312.69680	1.34171	1.31692	1.32021	1.32790		
June	11	2024	312.73733	1.34188	1.31709	1.32038	1.32808		
June	12	2024	312.77787	1.34205	1.31726	1.32055	1.32825		
June	13	2024	312.81840	1.34223	1.31743	1.32072	1.32842		
June	14	2024	312.85893	1.34240	1.31760	1.32089	1.32859		
June	15	2024	312.89947	1.34258	1.31777	1.32106	1.32876		
June	16	2024	312.94000	1.34275	1.31794	1.32124	1.32894		
June	17	2024	312.98053	1.34292	1.31811	1.32141	1.32911		
June	18	2024	313.02107	1.34310	1.31828	1.32158	1.32928		
June	19	2024	313.06160	1.34327	1.31845	1.32175	1.32945		
June	20	2024	313.10213	1.34345	1.31862	1.32192	1.32963		
June	21	2024	313.14267	1.34362	1.31880	1.32209	1.32980		
June	22	2024	313.18320	1.34379	1.31897	1.32226	1.32997		
June	23	2024	313.22373	1.34397	1.31914	1.32243	1.33014		
June	24	2024	313.26427	1.34414	1.31931	1.32260	1.33031		
June	25	2024	313.30480	1.34432	1.31948	1.32278	1.33049		
June	26	2024	313.34533	1.34449	1.31965	1.32295	1.33066		
June	27	2024	313.38587	1.34466	1.31982	1.32312	1.33083		
June	28	2024	313.42640	1.34484	1.31999	1.32329	1.33100		
June	29	2024	313.46693	1.34501	1.32016	1.32346	1.33117		
June	30	2024	313.50747	1.34518	1.32033	1.32363	1.33135		
CPI-U (NSA) for:				February 2024	310.326	March 2024	312.332	April 2024	313.548

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

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Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-3/8% 10-Year TIPS Series D-2025 912828XL9 July 15, 2015 July 31, 2015 September 30, 2015 November 30, 2015	0-5/8% 10-Year TIPS Series A-2026 912828N71 January 15, 2016 January 29, 2016 March 31, 2016 May 31, 2016	1% 30-Year TIPS TIPS of February 2046 912810RR1 February 15, 2016 February 29, 2016 June 30, 2016 October 31, 2016	0-1/8% 10-Year TIPS Series D-2026 912828S50 July 15, 2016 July 29, 2016 September 30, 2016 November 30, 2016		
Maturity Date: Ref CPI on Dated Date:			July 15, 2025 237.14365	January 15, 2026 237.61129	February 15, 2046 236.94448	July 15, 2026 239.70132		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
June	1	2024	312.33200	1.31706	1.31447	1.31817	1.30300	
June	2	2024	312.37253	1.31723	1.31464	1.31834	1.30317	
June	3	2024	312.41307	1.31740	1.31481	1.31851	1.30334	
June	4	2024	312.45360	1.31757	1.31498	1.31868	1.30351	
June	5	2024	312.49413	1.31774	1.31515	1.31885	1.30368	
June	6	2024	312.53467	1.31791	1.31532	1.31902	1.30385	
June	7	2024	312.57520	1.31808	1.31549	1.31919	1.30402	
June	8	2024	312.61573	1.31825	1.31566	1.31936	1.30419	
June	9	2024	312.65627	1.31843	1.31583	1.31953	1.30436	
June	10	2024	312.69680	1.31860	1.31600	1.31970	1.30453	
June	11	2024	312.73733	1.31877	1.31617	1.31988	1.30470	
June	12	2024	312.77787	1.31894	1.31634	1.32005	1.30487	
June	13	2024	312.81840	1.31911	1.31651	1.32022	1.30503	
June	14	2024	312.85893	1.31928	1.31668	1.32039	1.30520	
June	15	2024	312.89947	1.31945	1.31685	1.32056	1.30537	
June	16	2024	312.94000	1.31962	1.31702	1.32073	1.30554	
June	17	2024	312.98053	1.31979	1.31720	1.32090	1.30571	
June	18	2024	313.02107	1.31996	1.31737	1.32107	1.30588	
June	19	2024	313.06160	1.32013	1.31754	1.32124	1.30605	
June	20	2024	313.10213	1.32031	1.31771	1.32142	1.30622	
June	21	2024	313.14267	1.32048	1.31788	1.32159	1.30639	
June	22	2024	313.18320	1.32065	1.31805	1.32176	1.30656	
June	23	2024	313.22373	1.32082	1.31822	1.32193	1.30673	
June	24	2024	313.26427	1.32099	1.31839	1.32210	1.30689	
June	25	2024	313.30480	1.32116	1.31856	1.32227	1.30706	
June	26	2024	313.34533	1.32133	1.31873	1.32244	1.30723	
June	27	2024	313.38587	1.32150	1.31890	1.32261	1.30740	
June	28	2024	313.42640	1.32167	1.31907	1.32278	1.30757	
June	29	2024	313.46693	1.32184	1.31924	1.32296	1.30774	
June	30	2024	313.50747	1.32202	1.31941	1.32313	1.30791	
CPI-U (NSA) for:			February 2024	310.326	March 2024	312.332	April 2024	313.548

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Maturity Date: Ref CPI on Dated Date:			January 15, 2027 241.55919	February 15, 2047 241.39250	July 15, 2027 244.61839	January 15, 2028 246.66571		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
June	1	2024	312.33200	1.29298	1.29388	1.27681	1.26622	
June	2	2024	312.37253	1.29315	1.29404	1.27698	1.26638	
June	3	2024	312.41307	1.29332	1.29421	1.27714	1.26654	
June	4	2024	312.45360	1.29349	1.29438	1.27731	1.26671	
June	5	2024	312.49413	1.29365	1.29455	1.27748	1.26687	
June	6	2024	312.53467	1.29382	1.29472	1.27764	1.26704	
June	7	2024	312.57520	1.29399	1.29488	1.27781	1.26720	
June	8	2024	312.61573	1.29416	1.29505	1.27797	1.26737	
June	9	2024	312.65627	1.29433	1.29522	1.27814	1.26753	
June	10	2024	312.69680	1.29449	1.29539	1.27830	1.26769	
June	11	2024	312.73733	1.29466	1.29556	1.27847	1.26786	
June	12	2024	312.77787	1.29483	1.29572	1.27864	1.26802	
June	13	2024	312.81840	1.29500	1.29589	1.27880	1.26819	
June	14	2024	312.85893	1.29516	1.29606	1.27897	1.26835	
June	15	2024	312.89947	1.29533	1.29623	1.27913	1.26852	
June	16	2024	312.94000	1.29550	1.29639	1.27930	1.26868	
June	17	2024	312.98053	1.29567	1.29656	1.27946	1.26884	
June	18	2024	313.02107	1.29584	1.29673	1.27963	1.26901	
June	19	2024	313.06160	1.29600	1.29690	1.27980	1.26917	
June	20	2024	313.10213	1.29617	1.29707	1.27996	1.26934	
June	21	2024	313.14267	1.29634	1.29723	1.28013	1.26950	
June	22	2024	313.18320	1.29651	1.29740	1.28029	1.26967	
June	23	2024	313.22373	1.29667	1.29757	1.28046	1.26983	
June	24	2024	313.26427	1.29684	1.29774	1.28062	1.27000	
June	25	2024	313.30480	1.29701	1.29791	1.28079	1.27016	
June	26	2024	313.34533	1.29718	1.29807	1.28096	1.27032	
June	27	2024	313.38587	1.29735	1.29824	1.28112	1.27049	
June	28	2024	313.42640	1.29751	1.29841	1.28129	1.27065	
June	29	2024	313.46693	1.29768	1.29858	1.28145	1.27082	
June	30	2024	313.50747	1.29785	1.29875	1.28162	1.27098	
CPI-U (NSA) for:			February 2024	310.326	March 2024	312.332	April 2024	313.548

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Ref CPI and Index Ratios for
June 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				1% 30-Year TIPS TIPS of February 2048 912810SB5 February 15, 2018 February 28, 2018 June 29, 2018 October 31, 2018		0-3/4% 10-Year TIPS Series D-2028 912828Y38 July 15, 2018 July 31, 2018 September 28, 2018 November 30, 2018		0-7/8% 10-Year TIPS Series A-2029 9128285W6 January 15, 2019 January 31, 2019 March 29, 2019 May 31, 2019		1% 30-Year TIPS TIPS of February 2049 912810SG4 February 15, 2019 February 28, 2019 August 30, 2019	
Maturity Date: Ref CPI on Dated Date:				February 15, 2048 246.59650		July 15, 2028 251.01658		January 15, 2029 252.50248		February 15, 2049 251.63550	
Date				Ref CPI		Index Ratio		Index Ratio		Index Ratio	
June	1	2024	312.33200	1.26657	1.24427	1.23695	1.24121				
June	2	2024	312.37253	1.26674	1.24443	1.23711	1.24137				
June	3	2024	312.41307	1.26690	1.24459	1.23727	1.24153				
June	4	2024	312.45360	1.26706	1.24475	1.23743	1.24169				
June	5	2024	312.49413	1.26723	1.24491	1.23759	1.24185				
June	6	2024	312.53467	1.26739	1.24508	1.23775	1.24201				
June	7	2024	312.57520	1.26756	1.24524	1.23791	1.24217				
June	8	2024	312.61573	1.26772	1.24540	1.23807	1.24234				
June	9	2024	312.65627	1.26789	1.24556	1.23823	1.24250				
June	10	2024	312.69680	1.26805	1.24572	1.23839	1.24266				
June	11	2024	312.73733	1.26821	1.24588	1.23855	1.24282				
June	12	2024	312.77787	1.26838	1.24604	1.23871	1.24298				
June	13	2024	312.81840	1.26854	1.24621	1.23887	1.24314				
June	14	2024	312.85893	1.26871	1.24637	1.23903	1.24330				
June	15	2024	312.89947	1.26887	1.24653	1.23919	1.24346				
June	16	2024	312.94000	1.26904	1.24669	1.23935	1.24362				
June	17	2024	312.98053	1.26920	1.24685	1.23951	1.24379				
June	18	2024	313.02107	1.26937	1.24701	1.23968	1.24395				
June	19	2024	313.06160	1.26953	1.24717	1.23984	1.24411				
June	20	2024	313.10213	1.26969	1.24734	1.24000	1.24427				
June	21	2024	313.14267	1.26986	1.24750	1.24016	1.24443				
June	22	2024	313.18320	1.27002	1.24766	1.24032	1.24459				
June	23	2024	313.22373	1.27019	1.24782	1.24048	1.24475				
June	24	2024	313.26427	1.27035	1.24798	1.24064	1.24491				
June	25	2024	313.30480	1.27052	1.24814	1.24080	1.24507				
June	26	2024	313.34533	1.27068	1.24831	1.24096	1.24523				
June	27	2024	313.38587	1.27084	1.24847	1.24112	1.24540				
June	28	2024	313.42640	1.27101	1.24863	1.24128	1.24556				
June	29	2024	313.46693	1.27117	1.24879	1.24144	1.24572				
June	30	2024	313.50747	1.27134	1.24895	1.24160	1.24588				
CPI-U (NSA) for:				February 2024	310.326	March 2024	312.332	April 2024	313.548		

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

June 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/4% 10-Year TIPS Series D-2029 9128287D6 July 15, 2019 July 31, 2019 September 30, 2019 November 29, 2019	0-1/8% 5-Year TIPS Series AE-2024 912828YL8 October 15, 2019 October 31, 2019 December 31, 2019	0-1/8% 10-Year TIPS Series A-2030 912828Z37 January 15, 2020 January 31, 2020 March 31, 2020 May 29, 2020	0-1/4% 30-Year TIPS TIPS of February 2050 912810SM1 February 15, 2020 February 28, 2020 August 31, 2020		
Maturity Date: Ref CPI on Dated Date:			July 15, 2029 255.79368	October 15, 2024 256.56513	January 15, 2030 257.28368	February 15, 2050 257.09503		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
June	1	2024	312.33200	1.22103	1.21736	1.21396	1.21485	
June	2	2024	312.37253	1.22119	1.21752	1.21412	1.21501	
June	3	2024	312.41307	1.22135	1.21768	1.21427	1.21517	
June	4	2024	312.45360	1.22151	1.21783	1.21443	1.21532	
June	5	2024	312.49413	1.22166	1.21799	1.21459	1.21548	
June	6	2024	312.53467	1.22182	1.21815	1.21475	1.21564	
June	7	2024	312.57520	1.22198	1.21831	1.21490	1.21580	
June	8	2024	312.61573	1.22214	1.21847	1.21506	1.21595	
June	9	2024	312.65627	1.22230	1.21862	1.21522	1.21611	
June	10	2024	312.69680	1.22246	1.21878	1.21538	1.21627	
June	11	2024	312.73733	1.22262	1.21894	1.21554	1.21643	
June	12	2024	312.77787	1.22277	1.21910	1.21569	1.21658	
June	13	2024	312.81840	1.22293	1.21926	1.21585	1.21674	
June	14	2024	312.85893	1.22309	1.21941	1.21601	1.21690	
June	15	2024	312.89947	1.22325	1.21957	1.21617	1.21706	
June	16	2024	312.94000	1.22341	1.21973	1.21632	1.21722	
June	17	2024	312.98053	1.22357	1.21989	1.21648	1.21737	
June	18	2024	313.02107	1.22372	1.22005	1.21664	1.21753	
June	19	2024	313.06160	1.22388	1.22020	1.21680	1.21769	
June	20	2024	313.10213	1.22404	1.22036	1.21695	1.21785	
June	21	2024	313.14267	1.22420	1.22052	1.21711	1.21800	
June	22	2024	313.18320	1.22436	1.22068	1.21727	1.21816	
June	23	2024	313.22373	1.22452	1.22084	1.21743	1.21832	
June	24	2024	313.26427	1.22468	1.22099	1.21758	1.21848	
June	25	2024	313.30480	1.22483	1.22115	1.21774	1.21863	
June	26	2024	313.34533	1.22499	1.22131	1.21790	1.21879	
June	27	2024	313.38587	1.22515	1.22147	1.21806	1.21895	
June	28	2024	313.42640	1.22531	1.22163	1.21821	1.21911	
June	29	2024	313.46693	1.22547	1.22178	1.21837	1.21926	
June	30	2024	313.50747	1.22563	1.22194	1.21853	1.21942	
CPI-U (NSA) for:			February 2024	310.326	March 2024	312.332	April 2024	313.548

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
June 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/8% 5-Year TIPS Series X-2025 912828ZJ2 April 15, 2020 April 30, 2020 June 30, 2020 July 13, 2020	0-1/8% 10-Year TIPS Series D-2030 912828ZZ6 July 15, 2020 July 31, 2020 September 30, 2020 November 30, 2020	0-1/8% 5-Year TIPS Series AE-2025 91282CAQ4 October 15, 2020 October 30, 2020 December 31, 2020	0-1/8% 10-Year TIPS Series A-2031 91282CBF7 January 15, 2021 January 29, 2021 March 31, 2021 May 28, 2021		
Maturity Date: Ref CPI on Dated Date:			April 15, 2025 258.30093	July 15, 2030 256.39126	October 15, 2025 259.46997	January 15, 2031 260.31619		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
June	1	2024	312.33200	1.20918	1.21819	1.20373	1.19982	
June	2	2024	312.37253	1.20934	1.21834	1.20389	1.19997	
June	3	2024	312.41307	1.20949	1.21850	1.20404	1.20013	
June	4	2024	312.45360	1.20965	1.21866	1.20420	1.20028	
June	5	2024	312.49413	1.20981	1.21882	1.20436	1.20044	
June	6	2024	312.53467	1.20996	1.21898	1.20451	1.20060	
June	7	2024	312.57520	1.21012	1.21913	1.20467	1.20075	
June	8	2024	312.61573	1.21028	1.21929	1.20482	1.20091	
June	9	2024	312.65627	1.21043	1.21945	1.20498	1.20106	
June	10	2024	312.69680	1.21059	1.21961	1.20514	1.20122	
June	11	2024	312.73733	1.21075	1.21977	1.20529	1.20137	
June	12	2024	312.77787	1.21090	1.21992	1.20545	1.20153	
June	13	2024	312.81840	1.21106	1.22008	1.20561	1.20169	
June	14	2024	312.85893	1.21122	1.22024	1.20576	1.20184	
June	15	2024	312.89947	1.21138	1.22040	1.20592	1.20200	
June	16	2024	312.94000	1.21153	1.22056	1.20607	1.20215	
June	17	2024	312.98053	1.21169	1.22071	1.20623	1.20231	
June	18	2024	313.02107	1.21185	1.22087	1.20639	1.20246	
June	19	2024	313.06160	1.21200	1.22103	1.20654	1.20262	
June	20	2024	313.10213	1.21216	1.22119	1.20670	1.20278	
June	21	2024	313.14267	1.21232	1.22135	1.20686	1.20293	
June	22	2024	313.18320	1.21247	1.22150	1.20701	1.20309	
June	23	2024	313.22373	1.21263	1.22166	1.20717	1.20324	
June	24	2024	313.26427	1.21279	1.22182	1.20732	1.20340	
June	25	2024	313.30480	1.21294	1.22198	1.20748	1.20355	
June	26	2024	313.34533	1.21310	1.22214	1.20764	1.20371	
June	27	2024	313.38587	1.21326	1.22230	1.20779	1.20387	
June	28	2024	313.42640	1.21342	1.22245	1.20795	1.20402	
June	29	2024	313.46693	1.21357	1.22261	1.20810	1.20418	
June	30	2024	313.50747	1.21373	1.22277	1.20826	1.20433	
CPI-U (NSA) for:			February 2024	310.326	March 2024	312.332	April 2024	313.548

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
June 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				0-1/8% 30-Year TIPS TIPS of February 2051 912810SV1 February 15, 2021 February 26, 2021 August 31, 2021	0-1/8% 5-Year TIPS Series X-2026 91282CCA7 April 15, 2021 April 30, 2021 June 30, 2021	0-1/8% 10-Year TIPS Series D-2031 91282CCM1 July 15, 2021 July 30, 2021 September 30, 2021 November 30, 2021	0-1/8% 5-Year TIPS Series AE-2026 91282CDC2 October 15, 2021 October 29, 2021 December 31, 2021		
Maturity Date: Ref CPI on Dated Date:				February 15, 2051 260.35150	April 15, 2026 262.25027	July 15, 2031 268.02090	October 15, 2026 273.25771		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
June	1	2024	312.33200	1.19966	1.19097	1.16533	1.14299		
June	2	2024	312.37253	1.19981	1.19112	1.16548	1.14314		
June	3	2024	312.41307	1.19997	1.19128	1.16563	1.14329		
June	4	2024	312.45360	1.20012	1.19143	1.16578	1.14344		
June	5	2024	312.49413	1.20028	1.19159	1.16593	1.14359		
June	6	2024	312.53467	1.20043	1.19174	1.16608	1.14374		
June	7	2024	312.57520	1.20059	1.19190	1.16623	1.14388		
June	8	2024	312.61573	1.20074	1.19205	1.16639	1.14403		
June	9	2024	312.65627	1.20090	1.19221	1.16654	1.14418		
June	10	2024	312.69680	1.20106	1.19236	1.16669	1.14433		
June	11	2024	312.73733	1.20121	1.19251	1.16684	1.14448		
June	12	2024	312.77787	1.20137	1.19267	1.16699	1.14463		
June	13	2024	312.81840	1.20152	1.19282	1.16714	1.14477		
June	14	2024	312.85893	1.20168	1.19298	1.16729	1.14492		
June	15	2024	312.89947	1.20183	1.19313	1.16744	1.14507		
June	16	2024	312.94000	1.20199	1.19329	1.16760	1.14522		
June	17	2024	312.98053	1.20215	1.19344	1.16775	1.14537		
June	18	2024	313.02107	1.20230	1.19360	1.16790	1.14552		
June	19	2024	313.06160	1.20246	1.19375	1.16805	1.14566		
June	20	2024	313.10213	1.20261	1.19391	1.16820	1.14581		
June	21	2024	313.14267	1.20277	1.19406	1.16835	1.14596		
June	22	2024	313.18320	1.20292	1.19421	1.16850	1.14611		
June	23	2024	313.22373	1.20308	1.19437	1.16865	1.14626		
June	24	2024	313.26427	1.20324	1.19452	1.16881	1.14641		
June	25	2024	313.30480	1.20339	1.19468	1.16896	1.14655		
June	26	2024	313.34533	1.20355	1.19483	1.16911	1.14670		
June	27	2024	313.38587	1.20370	1.19499	1.16926	1.14685		
June	28	2024	313.42640	1.20386	1.19514	1.16941	1.14700		
June	29	2024	313.46693	1.20401	1.19530	1.16956	1.14715		
June	30	2024	313.50747	1.20417	1.19545	1.16971	1.14730		
CPI-U (NSA) for:				February 2024	310.326	March 2024	312.332	April 2024	313.548

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
June 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/8% 10-Year TIPS Series A-2032 91282CDX6 January 15, 2022 January 31, 2022 March 31, 2022 May 31, 2022	0-1/8% 30-Year TIPS TIPS of February 2052 912810TE8 February 15, 2022 February 28, 2022 August 31, 2022	0-1/8% 5-Year TIPS Series X-2027 91282CEJ6 April 15, 2022 April 29, 2022 June 30, 2022	0-5/8% 10-Year TIPS Series D-2032 91282CEZ0 July 15, 2022 July 29, 2022 September 30, 2022 November 30, 2022		
Maturity Date: Ref CPI on Dated Date:			January 15, 2032 277.20274	February 15, 2052 278.37500	April 15, 2027 282.34640	July 15, 2032 290.54829		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
June	1	2024	312.33200	1.12673	1.12198	1.10620	1.07497	
June	2	2024	312.37253	1.12687	1.12213	1.10635	1.07511	
June	3	2024	312.41307	1.12702	1.12227	1.10649	1.07525	
June	4	2024	312.45360	1.12717	1.12242	1.10663	1.07539	
June	5	2024	312.49413	1.12731	1.12257	1.10678	1.07553	
June	6	2024	312.53467	1.12746	1.12271	1.10692	1.07567	
June	7	2024	312.57520	1.12761	1.12286	1.10706	1.07581	
June	8	2024	312.61573	1.12775	1.12300	1.10721	1.07595	
June	9	2024	312.65627	1.12790	1.12315	1.10735	1.07609	
June	10	2024	312.69680	1.12804	1.12329	1.10749	1.07623	
June	11	2024	312.73733	1.12819	1.12344	1.10764	1.07637	
June	12	2024	312.77787	1.12834	1.12358	1.10778	1.07651	
June	13	2024	312.81840	1.12848	1.12373	1.10792	1.07665	
June	14	2024	312.85893	1.12863	1.12388	1.10807	1.07679	
June	15	2024	312.89947	1.12877	1.12402	1.10821	1.07693	
June	16	2024	312.94000	1.12892	1.12417	1.10835	1.07707	
June	17	2024	312.98053	1.12907	1.12431	1.10850	1.07721	
June	18	2024	313.02107	1.12921	1.12446	1.10864	1.07735	
June	19	2024	313.06160	1.12936	1.12460	1.10879	1.07749	
June	20	2024	313.10213	1.12951	1.12475	1.10893	1.07763	
June	21	2024	313.14267	1.12965	1.12490	1.10907	1.07776	
June	22	2024	313.18320	1.12980	1.12504	1.10922	1.07790	
June	23	2024	313.22373	1.12994	1.12519	1.10936	1.07804	
June	24	2024	313.26427	1.13009	1.12533	1.10950	1.07818	
June	25	2024	313.30480	1.13024	1.12548	1.10965	1.07832	
June	26	2024	313.34533	1.13038	1.12562	1.10979	1.07846	
June	27	2024	313.38587	1.13053	1.12577	1.10993	1.07860	
June	28	2024	313.42640	1.13068	1.12591	1.11008	1.07874	
June	29	2024	313.46693	1.13082	1.12606	1.11022	1.07888	
June	30	2024	313.50747	1.13097	1.12621	1.11036	1.07902	
CPI-U (NSA) for:			February 2024	310.326	March 2024	312.332	April 2024	313.548

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

June 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				1-5/8% 5-Year TIPS Series AE-2027 91282CFR7 October 15, 2022 October 31, 2022 December 30, 2022	1-1/8% 10-Year TIPS Series A-2033 91282CGK1 January 15, 2023 January 31, 2023 March 31, 2023 May 31, 2023	1-1/2% 30-Year TIPS TIPS of February 2053 912810TP3 February 15, 2023 February 28, 2023 August 31, 2023	1-1/4% 5-Year TIPS Series X-2028 91282CGW5 April 15, 2023 April 28, 2023 June 30, 2023		
Maturity Date: Ref CPI on Dated Date:				October 15, 2027 296.22858	January 15, 2033 297.87606	February 15, 2053 297.25400	April 15, 2028 299.94933		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
June	1	2024	312.33200	1.05436	1.04853	1.05072	1.04128		
June	2	2024	312.37253	1.05450	1.04867	1.05086	1.04142		
June	3	2024	312.41307	1.05464	1.04880	1.05100	1.04155		
June	4	2024	312.45360	1.05477	1.04894	1.05113	1.04169		
June	5	2024	312.49413	1.05491	1.04907	1.05127	1.04182		
June	6	2024	312.53467	1.05505	1.04921	1.05141	1.04196		
June	7	2024	312.57520	1.05518	1.04935	1.05154	1.04209		
June	8	2024	312.61573	1.05532	1.04948	1.05168	1.04223		
June	9	2024	312.65627	1.05546	1.04962	1.05182	1.04236		
June	10	2024	312.69680	1.05559	1.04975	1.05195	1.04250		
June	11	2024	312.73733	1.05573	1.04989	1.05209	1.04263		
June	12	2024	312.77787	1.05587	1.05003	1.05222	1.04277		
June	13	2024	312.81840	1.05600	1.05016	1.05236	1.04290		
June	14	2024	312.85893	1.05614	1.05030	1.05250	1.04304		
June	15	2024	312.89947	1.05628	1.05044	1.05263	1.04317		
June	16	2024	312.94000	1.05641	1.05057	1.05277	1.04331		
June	17	2024	312.98053	1.05655	1.05071	1.05291	1.04344		
June	18	2024	313.02107	1.05669	1.05084	1.05304	1.04358		
June	19	2024	313.06160	1.05682	1.05098	1.05318	1.04371		
June	20	2024	313.10213	1.05696	1.05112	1.05332	1.04385		
June	21	2024	313.14267	1.05710	1.05125	1.05345	1.04399		
June	22	2024	313.18320	1.05723	1.05139	1.05359	1.04412		
June	23	2024	313.22373	1.05737	1.05152	1.05372	1.04426		
June	24	2024	313.26427	1.05751	1.05166	1.05386	1.04439		
June	25	2024	313.30480	1.05765	1.05180	1.05400	1.04453		
June	26	2024	313.34533	1.05778	1.05193	1.05413	1.04466		
June	27	2024	313.38587	1.05792	1.05207	1.05427	1.04480		
June	28	2024	313.42640	1.05806	1.05220	1.05441	1.04493		
June	29	2024	313.46693	1.05819	1.05234	1.05454	1.04507		
June	30	2024	313.50747	1.05833	1.05248	1.05468	1.04520		
CPI-U (NSA) for:				February 2024	310.326	March 2024	312.332	April 2024	313.548

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Ref CPI and Index Ratios for
June 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			1-3/8% 10-Year TIPS Series D-2033 91282CHP9 July 15, 2023 July 31, 2023 September 29, 2023 November 30, 2023	2-3/8% 5-Year TIPS Series AE-2028 91282CJH5 October 15, 2023 October 31, 2023 December 29, 2023	1-3/4% 10-Year TIPS Series A-2034 91282CJY8 January 15, 2024 January 31, 2024 March 28, 2024	2-1/8% 30-Year TIPS TIPS of February 2054 912810TY4 February 15, 2024 February 29, 2024		
Maturity Date: Ref CPI on Dated Date:			July 15, 2033 303.70803	October 15, 2028 306.29390	January 15, 2034 307.39100	February 15, 2054 306.90376		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
June	1	2024	312.33200	1.02840	1.01971	1.01607	1.01769	
June	2	2024	312.37253	1.02853	1.01985	1.01621	1.01782	
June	3	2024	312.41307	1.02866	1.01998	1.01634	1.01795	
June	4	2024	312.45360	1.02880	1.02011	1.01647	1.01808	
June	5	2024	312.49413	1.02893	1.02024	1.01660	1.01822	
June	6	2024	312.53467	1.02906	1.02038	1.01673	1.01835	
June	7	2024	312.57520	1.02920	1.02051	1.01687	1.01848	
June	8	2024	312.61573	1.02933	1.02064	1.01700	1.01861	
June	9	2024	312.65627	1.02946	1.02077	1.01713	1.01874	
June	10	2024	312.69680	1.02960	1.02090	1.01726	1.01888	
June	11	2024	312.73733	1.02973	1.02104	1.01739	1.01901	
June	12	2024	312.77787	1.02986	1.02117	1.01752	1.01914	
June	13	2024	312.81840	1.03000	1.02130	1.01766	1.01927	
June	14	2024	312.85893	1.03013	1.02143	1.01779	1.01940	
June	15	2024	312.89947	1.03026	1.02157	1.01792	1.01954	
June	16	2024	312.94000	1.03040	1.02170	1.01805	1.01967	
June	17	2024	312.98053	1.03053	1.02183	1.01818	1.01980	
June	18	2024	313.02107	1.03066	1.02196	1.01832	1.01993	
June	19	2024	313.06160	1.03080	1.02210	1.01845	1.02006	
June	20	2024	313.10213	1.03093	1.02223	1.01858	1.02020	
June	21	2024	313.14267	1.03106	1.02236	1.01871	1.02033	
June	22	2024	313.18320	1.03120	1.02249	1.01884	1.02046	
June	23	2024	313.22373	1.03133	1.02262	1.01897	1.02059	
June	24	2024	313.26427	1.03147	1.02276	1.01911	1.02072	
June	25	2024	313.30480	1.03160	1.02289	1.01924	1.02086	
June	26	2024	313.34533	1.03173	1.02302	1.01937	1.02099	
June	27	2024	313.38587	1.03187	1.02315	1.01950	1.02112	
June	28	2024	313.42640	1.03200	1.02329	1.01963	1.02125	
June	29	2024	313.46693	1.03213	1.02342	1.01977	1.02139	
June	30	2024	313.50747	1.03227	1.02355	1.01990	1.02152	
CPI-U (NSA) for:			February 2024	310.326	March 2024	312.332	April 2024	313.548

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
June 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s): Maturity Date: Ref CPI on Dated Date:			2-1/8% 5-Year TIPS Series X-2029 91282CKL4 April 15, 2024 April 30, 2024 April 15, 2029 309.30787			
Date			Ref CPI	Index Ratio		
June	1	2024	312.33200	1.00978		
June	2	2024	312.37253	1.00991		
June	3	2024	312.41307	1.01004		
June	4	2024	312.45360	1.01017		
June	5	2024	312.49413	1.01030		
June	6	2024	312.53467	1.01043		
June	7	2024	312.57520	1.01056		
June	8	2024	312.61573	1.01069		
June	9	2024	312.65627	1.01083		
June	10	2024	312.69680	1.01096		
June	11	2024	312.73733	1.01109		
June	12	2024	312.77787	1.01122		
June	13	2024	312.81840	1.01135		
June	14	2024	312.85893	1.01148		
June	15	2024	312.89947	1.01161		
June	16	2024	312.94000	1.01174		
June	17	2024	312.98053	1.01187		
June	18	2024	313.02107	1.01200		
June	19	2024	313.06160	1.01214		
June	20	2024	313.10213	1.01227		
June	21	2024	313.14267	1.01240		
June	22	2024	313.18320	1.01253		
June	23	2024	313.22373	1.01266		
June	24	2024	313.26427	1.01279		
June	25	2024	313.30480	1.01292		
June	26	2024	313.34533	1.01305		
June	27	2024	313.38587	1.01318		
June	28	2024	313.42640	1.01332		
June	29	2024	313.46693	1.01345		
June	30	2024	313.50747	1.01358		
CPI-U (NSA) for:			February 2024	310.326	March 2024	312.332
					April 2024	313.548